



DECEMBER 1993

90's Farm House

FINAL POST

* * *

PAARA HOLIDAY DINNER
WEDNESDAY DECEMBER 8TH!

* * *

DEADLINE FOR
RESERVATIONS IS
FRIDAY DECEMBER 3RD!

386 Convention Way
Redwood City 369-3337



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EDITOR	CHUCK JOHNSON	N6VFH	408-251-8536
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PAARA POLICIES

MEMBERSHIP IN PAARA IS \$6.00 PER CALENDAR YEAR WHICH INCLUDES A SUBSCRIPTION TO PAARVGRAPHS. MAKE PAYMENT TO THE PALO ALTO AMATEUR RADIO ASSOCIATION, P.O. BOX 911, MENLO PARK, CA 94026

CLUB NET 147.45 MHZ MONDAYS 8:30 PM

MEETINGS: 7:30 PM ON THE FIRST FRIDAY OF EACH MONTH AT THE MENLO PARK RECREATION CENTER, 700 ALMA STREET.

SEND PAARVGRAPHS CORRESPONDENCE TO:

CHUCK JOHNSON N6VFH, EDITOR
3309 MT. LOGAN DRIVE
SAN JOSE, CA 95127

FROM THE EDITOR'S DESK

HAPPY HOLIDAYS & NEW
YEAR TO ONE AND ALL !

DE YOUR EDITOR
SPEAKER OF THE MONTH
SPECIAL GUEST SPEAKER
being set up for December !
Keep an ear on the PAARA
net for latest details !
REMEMBER!

Open Home Brew Nite now
at every meeting. Bring ur
creations to show-'n-tell
with the club !

Meeting Friday Dec. 3rd!
Be There or Be Square!

THE PREZ SEZ



The Following is the revised slate of officers & board members for 1994.

PRESIDENT - LILY ANNE HILLIS N6PGM
VICE PRESIDENT - ANDY KORSAK VE3FZK
SECRETARY - JOHN GOMPERTS WB7TEM
TREASURER - RON CARMICHAEL KD6RFI
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PROPERTY/BADGES - FRED CANHAM K6YT
ARES OFFICER - LILY ANNE HILLIS N6PGM
CLUB HISTORIAN - STEVE STUNTZ K6FS

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DAN CURRY WB6STW -- 94
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KOERT KOELMAN KC6WCI -- 94
GERALD TUCKER WA6LNV -- 94
J. GOLDBERG KD6PBH -- 94
DAVE MEACHAM W6EMD -- 94

DE LILY N6PGM
NOMINATION COMMITTEE



COALITION OF AMATEUR EXPERIMENTERS
WISHES YOU AND YOURS A HAPPY HOLIDAY
SEASON AND NEW YEAR!



SANDI

ORTHO



ED KD6KCA

JOHN AVALOS

& THOSE NOT PICTURED...

QST VIA BENJAMIN KA6SIQ

From : N6JQJ To : ARES @ALLSCV Date/time : 10-Nov 19:53

Subject: N6JQJ Steps Down as SCV SEC

SCV Section Emergency Coordinator Dave Larton N6JQJ announced today his intention to resign effective 31 December 1993. He cited personal reasons for his departure, and asked Assistant Section Emergency Coordinator Scott Hensley KB6UOO to assume the duties of SEC until a new candidate can be appointed by SCV Section Manager Steve Wilson.

Larton cited several milestones during his four year tenure as SEC, among them having the Section respond to disasters like the Lexington wildfires and the Loma Prieta earthquake. A SCV ARES position created for the earthquake, Shift Supervisor, has been included in emergency manuals nationwide as a first responder. Larton also published several manuals that have been cited by the ARRL, including the SCV Shift Supervisor's Handbook, a Net Control manual, and an Emergency Response guide. Larton also initiated the highly successful Emergency Response Institute, and remains on its Board of Directors.

"I've accomplished most of the goals that I began four years ago, said Larton, "and I look forward to the great work Scott Hensley will put into the Section's ARES/RACES program. I still have some projects that I want to accomplish, and I felt it was time for me to move on."

Larton stressed that he will remain active as an ARES/RACES volunteer, and will be assisting the Section whenever needed. <via packet>

FROM: SAN MATEO TIMES

Trio of inventors say their new battery number one, so to speak

Scientists skeptical about urine battery

By SUE MANNING

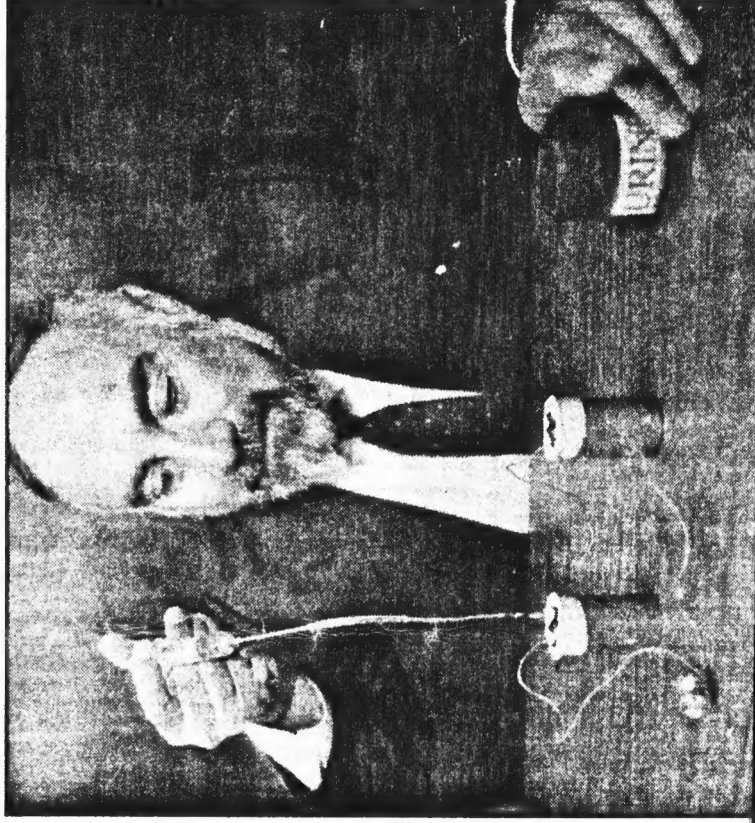
Associated Press

PASADENA — Urine luck. More power to you?

Three men claim they have invented a urine battery that will produce electricity.

Scientists say they are highly skeptical of the inventors' claims, especially without knowing the makeup of the battery electrodes and what chemical reactions purportedly produce the power.

The inventors, Nelson E. Camus, Edgar Aguayo and Ismael Valle, partners in an



electronics company called Nelsonium Electronics in Hacienda Heights, say that information is a secret they are not about to share.

Camus, a 45-year-old electronics engineer from Chile, discovered the compound that makes the battery work, Aguayo said. They call it Nelson's lithium or nithium.

The men are looking for investors with \$5 million.

But at least one scientist, Robert Osteryoung, an electrochemist at North Carolina State University in Raleigh, N.C., said he would be leery about giving them 5 cents.

The battery promoters say they are used to snickers and chuckles. "But everybody stops laughing when they see our demonstration," Aguayo said.

The men will put the battery on display at the Invention Convention technology showcase, which runs through Monday at the Pasadena Convention Center.

The trio claims their home powered plants, at an estimated \$500 each, will be cheaper and smaller than existing power sources, eliminate toxic used batteries at landfills and boost the economy.

Nelson Camus pours fuel into his urine battery.

Aguayo insists you would be able to run every appliance and power-driven device in your home on four or five gallons of urine a day.

"That's taking into consideration you have everything working 24 hours a day. Under normal conditions, you might be able to get along with one gallon and, believe me, a family of four can make one gallon a day," Aguayo said.

To convert a home, the men plan to attach a bank of batteries to toilets in bathrooms. "As long as you put urine in the bank, you will have enough juice to run the house," Aguayo said.

Some batteries are made with lithium metal or related compounds, but "without more information, it would be impossible to determine if there is anything here or not," said Osteryoung.

Urea from urine could be used as a battery electrolyte, or material that allows electrically charged ions to flow from electrode to electrode, but claims that those batteries could power a home "are definitely out-

geous," said Gary Henriksen, a chemist at Argonne National Laboratory in Illinois.

Henriksen, in charge of an advanced battery development program at the lab, which conducts research for the U.S. Department of Energy, called the idea "off-the-wall."

Aguayo claims the batteries eliminate recharge time. In a vehicle, he said, it would be possible to recharge on the go. And there is no explosion danger, he said. "That's the beauty of urine, it is not explosive."

One of the problems is that not all urine is the same.

"We have found out the difference in pH levels in the urine does make a difference in the energy output of a battery. People under medication or who have a high content of alcohol will lower the energy output of the system," Aguayo said.

"There may be times when you have to invite family and friends over to help you charge up your system," he said.

90's Farm House

PAARA HOLIDAY PARTY AND
OFFICER INSTALLATION

WEDNESDAY, DECEMBER 8

CHOICE OF

- * PRIME RIB
 - * 1/2 ROASTED CHICKEN
 - * CATCH OF THE DAY
 - * VEGETARIAN PASTA
- \$18.50**

INCLUDES: SOUP OR SALAD, POTATO OR RICE
OR VEGETABLE, BREAD, DESSERT, COFFEE OR
TEA OR MILK. WINE WILL BE PROVIDED BY THE
CLUB.

NO HOST COCKTAILS 6:00 PM
DINNER 7:15

PLEASE SEND CHECKS AND MENU CHOICES TO:

PAARA HOLIDAY DINNER
P.O. BOX 911
MENLO PARK, CA 94026

OR SEE ME AT THE MEETING...

DEADLINE FOR RESERVATIONS: DECEMBER 3.

\$5.00 MAXIMUM FOR GIFT X-CHANGE
LABEL FOR YL OR OM.

DOOR PRIZES GALORE
SEE YOU THERE!

DE LILY N6PGM
PERENNIAL PARTY
CHAIRPERSON

386 Convention Way
Redwood City 369-3337

Mobile Operation in EI Land

de EI4VRH/W6APZ

Several months prior to our trip to Ireland (EI), I wrote the ARRL to request any information they might have on amateur radio licensing in Ireland. They sent me the address of the Department of Transportation and Communication, a form to apply for an Irish license, and the address of the Irish Radio Transmitters Society (IRTS - similar to the ARRL, but in EI Land). There is no fee for a reciprocal license for a visit of less than a month. I filled out the forms, sent in a photocopy of our licenses and passports, and about 6 weeks later we received our Irish licenses with instructions to use the EI4VRH call with either portable or mobile after it. No mention of using our W6 calls. The XYL was given EI5VEH. When I filled out the forms, I indicated that we would be using an HT to drive a 25-Watt 2-meter amplifier.

At the same time that I sent for the licenses, I wrote to the IRTS requesting information on 2 meter and 70 cm repeaters. I enclosed 4 IRCs (international reply coupons). About two weeks after receiving the licenses a thick envelope arrived from IRTS with photocopies of pages of their 1991 IRTS Handbook, showing the locations of the two-meter repeaters and 70-cm (440-MHz) repeaters, along with a copy of their latest newsletter and a nice letter welcoming us to Ireland and answering my questions. They reported that there were 1700 licensed hams in Ireland. I programmed my HT for the 8 repeater frequencies and most of the 2 meter FM simplex channels listed in Ireland, including the 2 meter mobile calling frequency. I had visions of touring Ireland talking to hams everywhere we went, moving smoothly from repeater to repeater as we toured the country. It did not work out that way, however.

It was raining when we arrived in Dublin. The rain/drizzle

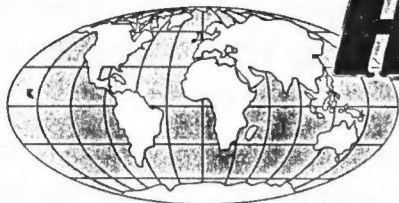
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continued most of the four days we spent in Dublin. Ever try carrying an umbrella while talking on an HT? It's not easy. Leaving Dublin on the East coast of Ireland, we drove to Galway on the West coast. I expected the drive to be an excellent time for mobile operation with the HT driving the 25-Watt amplifier into the home-made magnetic-mount quarter-wave antenna. That would have been easy here, but in Ireland as in England and Japan, they drive on the left side of the road. The cars have the steering wheel on the right and the shift on the left. With that combination, it took all my concentration just to drive, shift gears, and stay on the correct side of the road!

Most of the Irish repeaters require a 1750-Hz tone burst. If you have a good musical ear, you can literally whistle up a repeater. Once the repeater is on, it stays on as long as someone transmits through it. Tone burst is not necessary until the repeater turns off again. Even without a musical ear, I was successful in whistling up repeaters several times. When the repeater does not respond and one is without tone burst, however, one does not know if one's whistle was off frequency or the signal just wasn't reaching the repeater. That was the bad news. The good news is that some Irish repeaters do not require tone burst.

While many of the main roads are wide enough and smooth enough to permit travel at 65 mph, these same roads narrow down to the equivalent of 1.5 lanes for a two-way street through some of the older towns. Most roads have frequent sharp bends with uneven pavement, requiring more concentration and precluding ham radio operation - unless one comes equipped with 3 hands: one to shift, one to steer, and one for the microphone/PTT button. MORE TO COME, FROM RICH W6APZ/EI4VRH STAY TUNED! -ED



HAM RADIO OUTLET

WORLDWIDE DISTRIBUTION

OAKLAND, CA 94606
2210 Livingston St.
(510) 534-5757
(800) 854-6046

Phone Hours: 9:30 AM to 5:30 PM
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(800) 854-6046
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Bob Ferrero W6RJ
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Joe, K0BGA, Mgr.

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 East of Highway 17

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(800) 444-9476
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 Doraville, 1 mi.
 no. of I-285

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(800) 444-9476
Corrie, W84ICZ, Mgr.
 Exit 54, I-95, South to US 1

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Chuck, K1A4Z, Mgr.
 Exit 1, I-93,
 28 mi. No. of Boston

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2M/440 Dual Band
40 Mem Channels
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CTCSS Enc/Dec Built-in
Cross Band Full Duplex



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YAESU

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Black Shown
Gray Available

FT-416/FT-816

2 Mtr 440 Mhz
2W 2M/2W 440
5W optional
Direct DC input
Built-in VOX, 41 Mem.
DTMF paging, CTCSS built-in

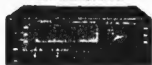
FT-411

2M HT
Standard 2.5W; 49 Mem
2m/140 to 174 Mhz
EXTENDED RECEIVE

KENWOOD

TS-50S

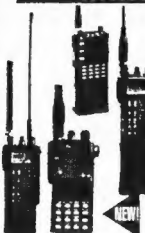
HF Transceiver



World's smallest HF transceiver
100W out, SSB, CW, AM, FM, 12V
Gen. Cov. RX, 6.4 lbs., 7.16 x 2.4 x 9.32"
105 db dynamic range, 100 Mems.
Optional external ant. tuners available
CALL FOR SPECIAL LOW PRICE!

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HANDHELDS



IC-26AT

2 Meter HT • 7 Watt

IC-D1A

2M/440/1.2 Tri-Band
IC-W2A/IC-X2A
IC-W21AT, 2M/440
IC-21A, 2 meter
IC-P2AT, 2 Meter
IC-P3AT, 220 Mhz
IC-P4AT, 440 Mhz
IC-24AT, Duo Band
IC-2SRA, 2M + Wide Rx

ALINCO

DR-600T

2M/440 FM Transceiver



45W/35W + Airband RX
Detachable/Removable Head
Keyboard freq. entry from microphone!
CALL FOR SPECIAL PRICE

YAESU

FT-990



100W HF Gen Cov Transceiver
DDS, QSK • 500Hz CW Filter included
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KENWOOD

HANDHELDS



TH-28A

2M/2.5W DTSS
240 Mem. w/optional
mem. unit
UHF RX

TH-48A

440/1.5W DTSS
240 Mem. w/optional
mem. unit
2 MTR RX

TH-225A

2 MTRS/5W

TH-315A

220MHz/2.5 W

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12V 100W w/auto Ant. Tuner
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